

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>009992.00003</b>
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/551008</b>
INTERNATIONAL APPLICATION NO. <b>PCT/E2004/000048</b>	INTERNATIONAL FILING DATE <b>29-Mar-04</b>	PRIORITY DATE CLAIMED <b>27-Mar-03</b>
TITLE OF INVENTION <b>AN APPARATUS FOR MEASURING AN A.C. CURRENT IN A CABLE</b>		
APPLICANT(S) FOR DO/EO/US <b>Thomas SORENSEN</b>		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☒ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. <b>10/551008</b>		INTERNATIONAL APPLICATION NO. PCT/IE2004/000048		ATTORNEY'S DOCKET NUMBER 009992.00003	
20. <input checked="" type="checkbox"/> Other items or information: a copy of the International Search Report from the European Patent Office					
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300				\$ 300.00	
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$ 200.00	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0					
All other situations..... \$200					
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))				\$ 400.00	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0					
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100					
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400					
All other situations..... \$500					
TOTAL OF 21, 22 and 23 =				900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250	\$	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	16 - 20 =	0	x \$ 50	\$	
Independent claims	1 - 3 =	0	x \$200	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 900.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
SUBTOTAL =				\$ 450.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	
TOTAL NATIONAL FEE =				\$ 450.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
TOTAL FEES ENCLOSED =				\$ 450.00	
				Amount to be refunded:	\$
				Amount to be charged	\$

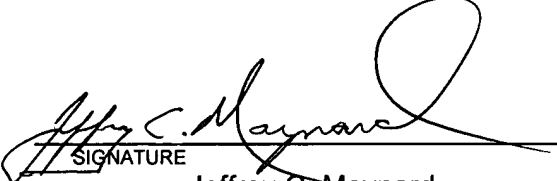
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☒ A check in the amount of \$ 450.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. 50-1479 in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1479. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Whiteford, Taylor & Preston LLP  
Seven St. Paul Street  
Baltimore, MD 21202-1626

  
SIGNATURE  
Jeffrey C. Maynard

NAME

46,208

REGISTRATION NUMBER

210 WEST PENNSYLVANIA AVENUE  
TOWSON, MARYLAND 21204-4515  
TELEPHONE 410 832-2000  
FAX 410 832-2015

WHITEFORD, TAYLOR & PRESTON  
L.L.P.

SEVEN SAINT PAUL STREET  
BALTIMORE, MARYLAND 21202-1626

410 347-8700  
FAX 410-347-9414  
www.wtplaw.com

1025 CONNECTICUT AVENUE, NW  
WASHINGTON, D.C. 20036-5405  
TELEPHONE 202 659-6800  
FAX 202 331-0573

20 COLUMBIA CORPORATE CENTER  
10420 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044-3528  
TELEPHONE 410 884-0700  
FAX 410 884-0719

115 ORONOCO STREET  
ALEXANDRIA, VIRGINIA 22314-1685  
TELEPHONE 703 836-5742  
FAX 703 836-3558

JEFFREY C. MAYNARD  
DIRECT NUMBER  
410-347-9496  
jmaynard@wtplaw.com

September 27, 2005

VIA EXPRESS MAIL NO.: ER052429413US

Mail Stop: PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Re: New U.S. National Phase Application of PCT International  
Application No. PCT/IE2004/000048 of SORENSEN, Thomas for  
his "AN APPARATUS FOR MEASURING AN A.C. CURRENT  
IN A CABLE"; Filed: Herewith (September 27, 2005)  
Our Docket No. 009992/00003

Honorable Commissioner:

Transmitted herewith for filing is the above-referenced U.S. National Phase  
Application of PCT International Patent Application No. PCT/IE2004/000048.  
Enclosed are:

1. Transmittal Letter to the United States Designated/Elected Office  
Concerning a Filing Under 35 U.S.C. 371 (3 pages).
2. Copy of the Published International Application (39 pages total including  
eight (8) pages of drawings and a three (3) page International Search  
Report).
3. A preliminary amendment (8 pages total plus a separate Abstract sheet)
4. Our check in the amount of \$450.00 to cover the filing fee.
5. Our post card. Please date stamp and return.

Applicant hereby asserts that it is entitled to claim Small Entity Status.

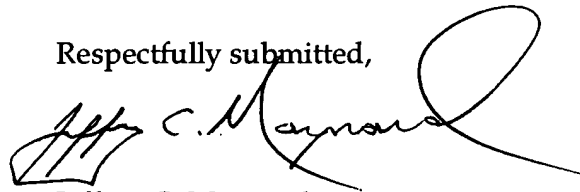
The declaration is not being submitted herewith and will be submitted under  
separate cover.

Commissioner for Patents  
September 27, 2005  
Page 2

Please associate this application with Customer Number 25223, and send all correspondence in connection with this application to the correspondence address associated therewith.

Please charge any unanticipated fees, or credit any overpayment, to our Deposit Account No.: 50-1479 (a duplicate copy of this charge authorization is attached).

Respectfully submitted,



Jeffrey C. Maynard  
Reg. No. 46,208

Enclosures

### CERTIFICATE OF EXPRESS MAILING

I HEREBY CERTIFY that the above-referenced documents relating to New National Phase Patent Application for AN APPARATUS FOR MEASURING A.C. CURRENT IN A CABLE are being deposited with the United States Postal Service as Express Mail Post Office to Addressee on the date indicated below and in an envelope addressed to:

Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail Label No.: ER052429413US

By: 

Print Name: Jeffrey C. Maynard

Date: September 27, 2005